

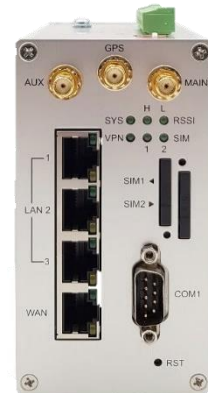
Industrial 4G/LTE Router

Aeronaut 4G/LTE Router is a highly reliable and secure wireless communications gateway designed for industrial networking. It supports multi-band connectivity including FDD / TDD LTE, WCDMA and GSM for a wide range of applications and vertical machine-to-machine (M2M) markets. To enhance reliability, LTRG-101 is equipped with dual SIM that supports failover and roaming over to ensure uninterrupted connectivity for mission-critical cellular communications.

With flexible LAN / WAN Ethernet, LTRG-101 allows you to customize your professional applications in diverse environments. It also provides enterprise-grade software features, such as Quality of Service (QoS) for traffic prioritization, IPSec, OpenVPN, Firewall security and so on.

The device is administrated via web GUI, Telnet, SSH v2 and HTTP/HTTPS. Built for secure and uninterrupted operation in harsh environments, LTRG-101 supports extended operating temperature from -20 to +70°C and a flexible input voltage range of 10-32V DC. LTRG-101 is an ideal cellular communications solution for heavy industrial use.

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Product Highlights

- ❖ Highly reliable and secure for mission-critical cellular communications
- ❖ Support multi-band connectivity with FDD LTE /TDD LTE / WCDMA / GSM / LTE Cat4
- ❖ Built-in dual SIM for network redundancy
- ❖ Integrated dual detachable antenna against radio interference
- ❖ LED indicators for connection and data transmission status
- ❖ Industrial rated from -20 ~ +70°C for use in harsh environments
- ❖ IPv6 / IPv4 dual stack and all applications are IPv6 ready
- ❖ Aluminium Housing with IP40 industrial grade protection
- ❖ Support various serial communication protocols for rich connectivity
- ❖ Enhance security and encryption for authentication and transmission

Technical Specifications	
LTE Interface	Software
FDD LTE: B1/B3/B5/B7/B8/B20	<ul style="list-style-type: none"> Network Protocols: IPv4, IPv6, IPv4/IPv6 dual stack, DHCP server and client, PPPoE, Static IP, SNTP, GPS sync time, DNS Proxy, Modbus, VRRP, OSPF, Message Queue Telemetry Transport (MQTT Broker), BGP
TDD LTE: B38/B40/B41	
WCDMA: B1/B5/B8	
GSM: 900/1800 MHz	
LTE Cat4	<ul style="list-style-type: none"> Routing/Firewall: NAT, Virtual Server, DMZ, MAC Filter, URL Filter, IP Filter, VLAN, Static Routing & RIP-1/2
Interface	
High performance 528 MHz CPU with 512 Mbytes of DDR3 memory	<ul style="list-style-type: none"> VPN: OpenVPN, IPSec (3DES, AES128, AES196, AES256, MD5, SHA-1, SHA256), GRE
2 x SIM Card Slots	
3 x LAN 10/100Mbps Ethernet ports	<ul style="list-style-type: none"> Wireless Connectivity: Two SIM for failover/ roaming over/ back up Two SIM data usage control Seamless multi WAN connections switch
1 x WAN 10/100Mbps Ethernet port	
Reset Button	
Console: 1 x RS232 (9-pin Sub-D)	<ul style="list-style-type: none"> Others: DDNS, QoS, Virtual Com, UPnP
2 x SMA connectors for LTE (Antenna inclusive)	
1 x SMA connector for GPS (Antenna not inclusive)	<ul style="list-style-type: none"> Alarm: DI, DO, SMS, VPN/WAN Disconnect, SNMP Trap, E-mail
1 x RS485 (D+/D-)	
1 x RS232 (TXD/RXD)	
2 x DI, 1 x DO (Alarm +/-)	
Physical Characteristics	Management Software
Enclosure: Aluminium alloy	Web GUI for remote and local management, CLI
Housing: IP40 Protection	Dual Image firmware upgrade by Web GUI
Dimensions (W x H x D): 60 x 110 x 106 mm	Syslog monitor
Installation: DIN Rail or Wall Mount (Optional)	SNMP, TR609
	Remote management via Telnet, SSH v2, HTTPS
	Local management via Telnet, SSH v2, HTTP/HTTPS
LED Display	Environment
1 x System status LED (Green)	Operating Temperature: -20 ~ +70°C
1 x VPN status LED (Green)	Storage Temperature: -40 ~ +85°C
1 x SIM1 status LED (Green)	Ambient Relative Humidity: 10 ~ 95% (non-condensing)
1 x SIM2 status LED (Green)	Humidity: 0 ~ 95% (non-condensing)
Ethernet status LEDs (Green for LINK/ACT, Yellow for SPEED)	
2 x Mobile connection strength LEDs (Green)	
Power Supply	Standards and Certifications
Power Consumption: 7 Watts (Max)	EMC: CE, FCC
Power Input :10 ~ 32V DC	EMI: EN 55032 Class A, FCC Part 15 Subpart B Class A
	EMS: EN 55024 / EN 61000-4-2 (ESD) Level 3 /
	EN 61000-4-3 (RS) Level 3 / EN 61000-4-4 (EFT) Level 4 /
	EN 61000-4-5 (Surge) Level 3 / EN 61000-4-6 (CS) Level 3 / EN 61000-4-8 (PFMF) Level 4 / EN 61000-4-11 /
	EN 61000-6-2 (Industrial) / EN 61000-6-4 (Industrial)
MTBF (Mean Time Before Failure)	
148,930 hrs (MIL-HDBK-217-FN2)	
Ordering information	
X1-LTE-4G	Industrial 4G LTE Router (1 x WAN + 3 x LAN) with GPS